



HIPOTRONICS



iHV Controller

**Intelligent Digital AC
and DC controller**



iHV Controller:

Intelligent Digital AC and DC controller

Our latest state-of-the-art controller is designed for both AC resonant test systems and ultra-high voltage DC (UHVDC) test systems. The iHV's digital control unit and intuitive software app combine advanced flexibility with ease-of-use.

The iHV controller ensures accurate voltage and current measurements for users. It also has control and measuring capability for Q value, flash sensitivity, ripple, and polarity reversal.

Users operate the controller through Hipotronics software installed on a customer-supplied computer. It can be connected by Ethernet cable or an optional fiber optic connection.

Reduce the collection of PCs in your control room by utilizing the iHV controller's multi-measurement capability! Ensure safe high voltage operation with features including external interlock and E-stop.

The software features a flexible and intuitive design that allows setting different parameters, so completing tests is easy and efficient. We can also provide a list of communications protocols if you want to use your own custom control system.








The iHV controller is included in all new UHVDC and resonant test systems. It's also available as a simple and quick upgrade for existing HV systems, providing a plug-and-play modern control solution.












Easy to use and more efficient

BENEFITS:

-  **Simple to Use** Intuitive control and minimal setup time simplify testing
-  **Plug & Play design** compatible with previous Windows-based controllers
-  **Efficient** presets and sequences for repeatable accurate testing
-  **User-friendly** Hipotronics control software
-  **Easy to share results** with saved data on the iHV software
-  **Safe operation** with external interlock provisions, emergency stop, fiber optic connection and visual warning indicators
-  **SIL 3 Compatible**

FEATURES:

-  **Multiple measurements** including output voltage, current, tuning meter, quality factor ripple, PD
-  **Adjustable test parameters** include target voltage, maximum current' ramp rate, dwell time
-  **Partial Discharge measurement** integration with 3rd party PD detector suppliers
-  **Auto tuning and polarity reversal** for fast and accurate testing
-  **Record and view** test results, export options include csv, docx or PDF
-  **Meter and graph display** with zoom and pan capability
-  **Rackmount or benchtop** design

iHV Software: Easy and Efficient

Controlling your measuring instruments from a single computer allows for easy control of test bays and automated test procedures. The result is the highest level of safety. Our latest user-friendly interface, based on 60 years of field experience, provides high performance in a wide range of applications. Not only is operation simplified, but training requirements for test staff are minimized.

Users get automatic testing, data collection and results recording with customizable reports. This latest version provides improved meter and graph display for better interpretation of the HV test results. You can export results in a variety of formats, including csv, xlsx, docx or PDF.

A list of the communications protocols required to interface with the iHV software can be provided when creating a custom control system.

Understanding the Interface



- 1 Alarms and reset button
- 2 Voltage and current meter display
- 3 Partial discharge and RIV meter display
- 4 Overvoltage and overcurrent settings
- 5 High voltage on and off button
- 6 Graphical display of voltage, current, and optional PD measurements
- 7 High voltage increase and decrease buttons
- 8 Parameter Pane; set automatic sequences and control resonance (AC) or polarity (DC)

The Future-proof Upgrade

Due to the pace of technological progress, it is simply not possible to replace equipment, systems, and installations with new acquisitions. The iHV software provides a fast, cost-effective upgrade solution that protects your existing investment in Hipotronics and third-party test equipment.



Simple and Clean Interface

- Our software was designed to reduce the training load for operators



Test Handling and Reporting

- Improved meter and graph display for better interpretation of the HV test results
- View multiple reports



Controlled Measuring Instruments

- Adjustable test parameters for all HV applications

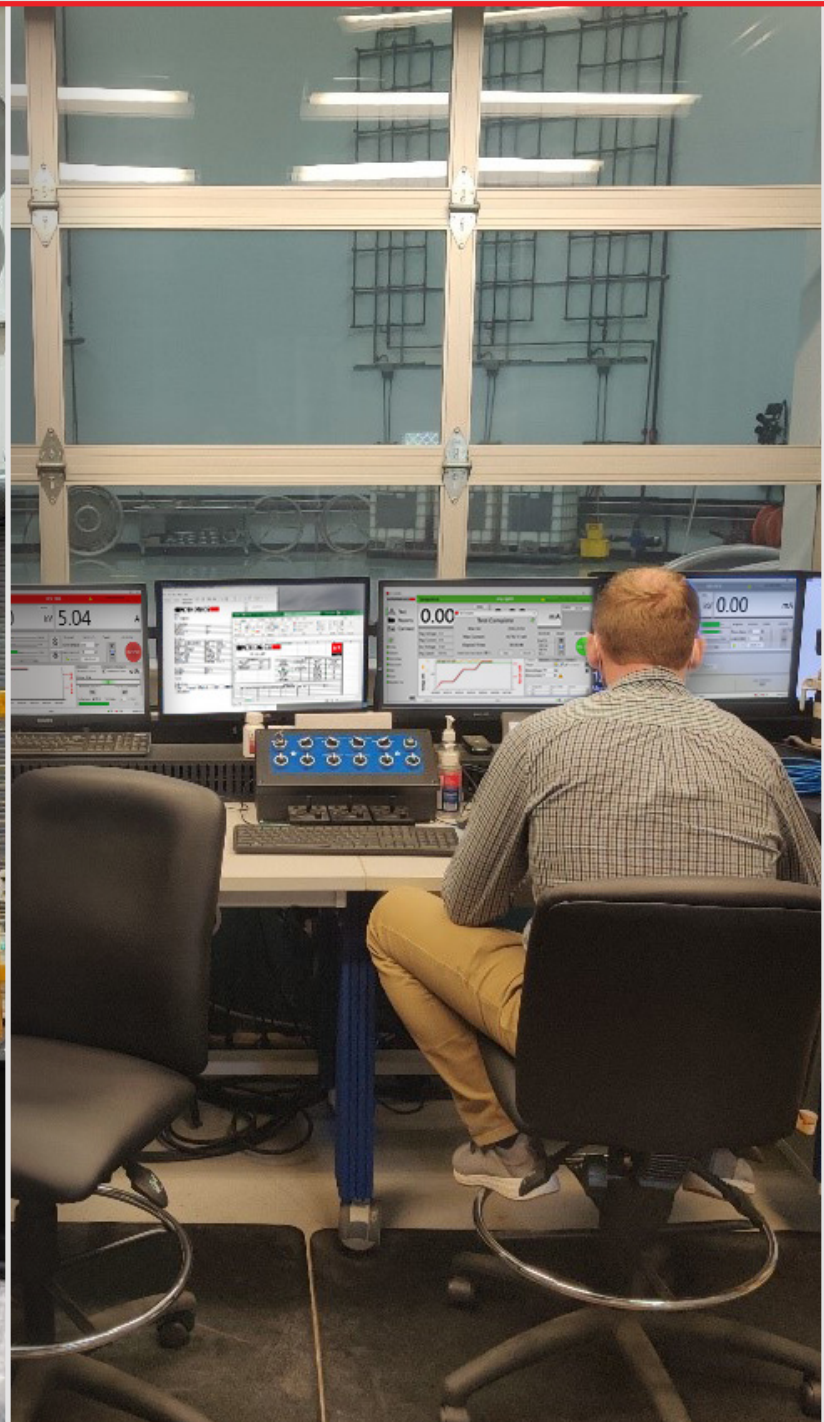
STAND-ALONE SOLUTIONS

We provide best-in-class testing for high-voltage electrical products. The iHV controller and software can be used for individual test controls and has the ability to display measurements from other third party measurement systems



PLUG AND PLAY UPGRADE

The iHV controller and software can be used to replace older Hipotronics Windows based systems as well as earlier generations of high voltage control systems



BETTER TEST EFFICIENCY

Multiple measurements can be performed by the iHV controller and displayed in the software at the same time including partial discharge from third party detectors. You get more efficient use of time and equipment, as well as a more thorough report.

SAFE AND RELIABLE

Emergency stop, built-in flashover protection, interlock provisions and optional fiber optic connection keep operators safe in high voltage environments. This simplified and unified testing solution promotes long life.





iHV Intelligent Test Control

Improve the way high voltage testing is performed

Access to safe and reliable power is more than a privilege, but a right. Hipotronics provides innovative and dependable test and measurement solutions to customers around the world. We work to make this dream a reality.

Hipotronics is part of Hubbell Incorporated (HUBB). We hold numerous US and international patents and manufacture in the United States. Our 60 years of experience help us focus our work on total quality.



HIPOTRONICS 

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